Technical Data Sheet

InVivoMAb anti-mouse LAG-3

Attention: Use of this product constitutes an agreement to Bio X Cell's Terms and Conditions which are included with this product in print and can also be found at https://bioxcell.com/terms-and-conditions.

Lot Specific Information

Lot Number: **Lot Specific***
Volume: **Lot Specific***
Concentration: **Lot Specific* (generally 4 to 11 mg/ml) ***
Total Protein: **Lot Specific***

*This information will be noted on the certificate of analysis that ships with this product.

Product Information

Catalog Number:	**BE0174**
Clone:	**C9B7W**
Isotype:	Rat IgG1, κ
Recommended Isotype Control(s):	InVivoMAb rat IgG1 isotype control, anti-horseradish peroxidase
Recommended Dilution Buffer:	InVivoPure pH 7.0 Dilution Buffer
Immunogen:	Mouse CD223-Ig fusion protein
Reported Applications:	*in vivo* LAG-3 neutralization *in vitro* LAG-3 neutralization Flow cytometry Western blot
Formulation:	PBS, pH 7.0 Contains no stabilizers or preservatives
Endotoxin:	≤1EU/mg (≤0.001EU/μg) Determined by LAL gel clotting assay
Purity:	≥95% Determined by SDS-PAGE
Sterility:	0.2 μm filtration
Production:	Purified from cell culture supernatant in an animal-free facility
Purification:	Protein G
RRID:	AB_10949602
Molecular Weight:	150 kDa

Description

The C9B7W monoclonal antibody reacts with mouse LAG-3 also known as CD223. LAG-3 is a 70 kDa type I transmembrane glycoprotein encoded by the Lag3 gene that belongs to the immunoglobulin superfamily. LAG-3 is expressed by activated T lymphocytes, NK cells, and T regulatory cells. LAG-3's main ligand is MHC class II which it binds to with a higher affinity than even CD4 does. Upon binding LAG-3 is thought to play similar roles as CTLA-4 and PD-1 including downregulation of TCR signaling and inhibition of CD4-dependent T cell function. LAG-3 has also been demonstrated to contribute to the suppressor function of T regulatory cells. In contrast to inhibition, LAG-3 has been shown to promotes immune responses by activating antigen-presenting cells. The C9B7W antibody has been reported to block the function of murine LAG-3 in vivo and in vitro but studies suggest that the antibody does not block binding of LAG-3 to MHC class II.

Storage

Store at the stock concentration at 4°C . **Do not freeze.**
It is not uncommon for a floccule or precipitate to appear during storage. The floccule is typically buffer salts precipitating out of solution or a small bit of protein aggregation. For information on how to remove floccules or precipitates see our FAQ's at https://bioxcell.com/faqs.

Protocol Information

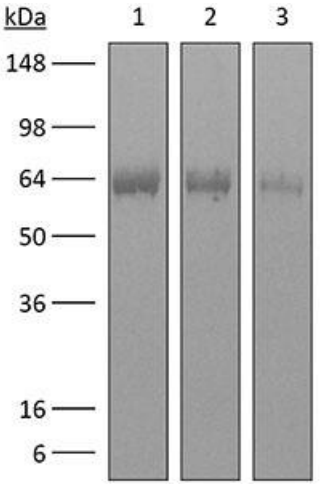
Since applications vary, each investigator should use the application references as a guide to help estimate the appropriate dose or concentration. The dose or concentration can be further optimized experimentally in a dose response or titration experiment.

Application References

For a complete list of references, visit https://bioxcell.com/be0174?bxcs=9k1b3a#tab_references or scan the QR code below.

Binding Validation

Validation data shown below confirms that this clone binds to its target antigen. For lot specific binding validation data, e-mail technicalservice@bioxcell.com.



Lane 1: 2 µg reduced purified mouse LAG-3 with histidine tag at C-terminus
Lane 2: 1 µg reduced purified mouse LAG-3 with histidine tag at C-terminus
Lane 3: 0.5 µg reduced purified mouse LAG-3 with histidine tag at C-terminus

Primary: biotinylated anti-mouse LAG-3 antibody (C9B7W) at 8 µg/ml

Secondary: HRP labeled streptavidin 1:1000 dilution

Predicted band size : 60 kDa

Bio X Cell, LLC
https://bioxcell.com
+1-866-787-3444
customerservice@bioxcell.com

Conditions: For research use only. Not for use in diagnostic or therapeutic procedures.
Not for resale.
Bio X Cell, Bio X Cell logo, and all other trademarks are the property of Bio X Cell, LLC © 2025 Bio X Cell, LLC